

## Mayon Volcano Alert Levels

Alert Level	Main Criteria	Interpretation/ Recommendations
<b>0</b> No Alert	<p><b>Quiet.</b></p> <p>All monitored parameters within background levels.</p>	<p><b>No eruption in foreseeable future.</b></p> <p>Entry in the 6-km radius Permanent Danger Zone (PDZ) is not advised because <b>phreatic explosions and ash puffs may occur without precursors.</b></p>
<b>1</b> Abnormal	<p><b>Low level unrest.</b></p> <p>Slight increase in seismicity.</p> <p>Slight increase in SO<sub>2</sub> gas output above the background level.</p> <p>Very faint glow of the crater may occur but no conclusive evidence of magma ascent.</p> <p>Phreatic explosion or ash puffs may occur.</p>	<p><b>No eruption imminent.</b></p> <p>Activity may be hydrothermal, magmatic or tectonic in origin.</p> <p>No entry in the 6-km radius PDZ.</p>
<b>2</b> Increasing Unrest	<p><b>Moderate unrest.</b></p> <p>Low to moderate level of seismic activity. Increasing SO<sub>2</sub> flux.</p> <p>Faint / intermittent crater glow.</p> <p>Swelling of edifice may be detected.</p> <p>Confirmed reports of decrease in flow of wells and springs during rainy season.</p>	<p><b>Unrest probably of magmatic origin; could eventually lead to eruption.</b></p> <p>6-km radius Danger Zone may be extended to 7 km in the sector where the crater rim is low.</p>
<b>3</b> Increased Tendency Towards Eruption	<p><b>Relatively high unrest.</b></p> <p>Volcanic quakes and tremor may become more frequent.</p> <p>Further increase in SO<sub>2</sub> flux.</p> <p>Occurrence of rockfalls in summit area.</p> <p>Vigorous steaming / sustained crater glow.</p> <p>Persistent swelling of edifice.</p>	<p><b>Magma is close or at the crater.</b></p> <p>If trend is one of increasing unrest, <b>eruption is possible within weeks.</b></p> <p>Extension of Danger Zone in the sector where the crater rim is low will be considered.</p>
<b>4</b> Hazardous Eruption Imminent	<p><b>Intense unrest.</b></p> <p>Persistent tremor, many “low frequency”-type earthquakes.</p> <p>SO<sub>2</sub> emission level may show sustained increase or abrupt decrease.</p> <p>Intense crater glow. Incandescent lava dome, lava fountain, lava flow in the summit area.</p>	<p><b>Hazardous eruption is possible within days.</b></p> <p>Extension of Danger zone to 8 km or more in the sector where the crater rim is low will be recommended.</p>
<b>5</b> Hazardous Eruption	<p><b>Hazardous eruption ongoing.</b></p> <p>Occurrence of pyroclastic flows, tall eruption columns and extensive ashfall.</p>	<p>Pyroclastic flows may sweep down along gullies and channels, especially along those fronting the low part(s) of the crater rim.</p> <p>Additional danger areas may be identified as eruption progresses.</p> <p>Danger to aircraft, by way of ash cloud encounter, depending on height of eruption column and/or wind drifts.</p>